

1. (Original) A method for generating a registered image of a body part of a patient for use in a computer aided surgical procedure, the method comprising:

attaching a marker detectable by a tracking system to the body part prior to any surgical steps of the surgical procedure, the tracking system having a reference frame;
 detecting the position of the marker in the reference frame;
 capturing at least a first image of the body part using an imaging system;
 obtaining an indication of the position of the first image relative to the reference frame of the tracking system; and
 determining a mapping to bring the first image into registration with the position of the body part.

2. (Currently Amended) The method ~~as claimed in~~ of claim 1, and further comprising the step of mapping the first image into registration with the position of the body part in the reference frame of the tracking system.

3. (Currently Amended) The method ~~as claimed in~~ of claim 1 ~~or 2~~, wherein the step of obtaining an indication of the position of the at least first image relative to the reference frame of the tracking system includes the step of detecting the position in the reference frame of the tracking system of a further marker attached to a part of the imaging system using the tracking system.

4. (Currently Amended) The method ~~as claimed in~~ of claim 1 ~~or 2~~, wherein the first image includes the marker and at least a part of the body part, and wherein the position of the marker is detected when the first image is captured thereby providing the indication.

5. (Currently Amended) The method of claim 2 ~~as claimed in any of claims 2 to 4~~, and further comprising the step of displaying the registered image during the computer aided surgical procedure.

6. (Currently Amended) The method ~~as claimed in~~ of claim 5, wherein the surgical procedure is an orthopaedic procedure.

7. (Currently Amended) The method ~~as claimed in of~~ claim 1, wherein the step of attaching the marker includes implanting the marker in a bone of the patient.
8. (Currently Amended) The method ~~as claimed in of~~ claim 7, wherein the step of implanting the marker includes percutaneously implanting the marker.
9. (Currently Amended) The method ~~as claimed in any preceding of~~ claim 1, wherein the marker is wirelessly detectable at radio frequencies by the tracking system.
10. (Currently Amended) The method of claim 1 ~~as claimed in any preceding claim,~~ wherein the imaging system is an X-ray system.
11. (Currently Amended) The method ~~as claimed in of~~ claim 11, wherein the position of the marker is detected with the patient standing.
12. (Currently Amended) The method of claim 1 ~~as claimed in any preceding claim,~~ wherein the marker is wirelessly tracked using a magnetic tracking system.
13. (Currently Amended) The method of claim 10 ~~as claimed in any of claims 10 to 12,~~ wherein the step of obtaining an indication of the position of the at least first image relative to the reference frame of the tracking system includes the step of determining the position of an X-ray detector in the reference frame of the tracking system.
14. (Currently Amended) The method of claim 10 ~~of any of claims 10 to 13,~~ and further comprising the step of capturing a second image of the body part using the X-ray system, and wherein the second image is in a second direction different to a first direction in which the first image was captured.
15. (Currently Amended) The method ~~as claimed in of~~ claim 14, wherein the step of capturing the second image includes moving the patient relative to the X-ray system.

16. (Currently Amended) The method ~~as claimed in of~~ claim 14, wherein the step of capturing a second image includes moving an X-ray source relative to the patient, ~~and the method further comprises further comprising the step of~~ determining the position of the X-ray source in the reference frame of the tracking system when the second image is captured.

17. (Currently Amended) The method ~~as claimed in of~~ claim 14, wherein the first image is captured using a first X-ray source and wherein the step of capturing the second image includes using a second X-ray source at a second position which is different to a first position of the first X-ray source.

18. (Currently Amended) The method ~~as claimed in of~~ claim 14, ~~and further comprising the step of~~ generating a three dimensional image of the body part from the first and second images.

19. (Currently Amended) The method ~~as claimed in of~~ claim 10, ~~and further comprising the step of~~ determining the distance between the body part and an imaging plane of an X-ray detector along a direction perpendicular to the plane of the imaging plan and using the distance to correct the first image captured by the X-ray detector.

20. (Currently Amended) The method of claim 1 ~~as claimed in any of claims 1 to 9~~, wherein the imaging system is a CT scan or an MR scan system.

21. (Currently Amended) The method ~~as claimed in of~~ claim 20, wherein the body part of the patient is located on a patient support part of the imaging system when the first image is captured and further comprising determining the position of the patient support part in the reference frame of the tracking system.

22. (Currently Amended) The method ~~as claimed in of~~ claim 21, ~~and further comprising the step of~~ mounting a marker detectable by the tracking system on the

patient support part.

23. (Currently Amended) The method ~~as claimed in~~ of claim 20, wherein the body part of the patient is located on a patient support part of the imaging system when the first image is captured, and further comprising ~~the step of~~ determining the position of an imaging plane of the scan system relative to the position of the patient support part.

24. (Currently Amended) The method ~~as claimed in~~ of claim 20, wherein the first image includes the marker and at least a part of the body part and wherein the position of the marker is detected when the first image is captured.

25. (Currently Amended) The method ~~as claimed in~~ of any preceding claim and further comprising ~~the steps of~~:

attaching a further marker detectable by the tracking system to a further body part prior to any surgical steps of the image guided surgical procedure; and

detecting the position of the further marker in the tracking reference frame.

26. (Currently Amended) The method ~~as claimed in~~ of claim 25, and wherein ~~the step of~~ mapping the first image into registration with the position of the body part includes using the position of the further marker.

27-50 (Cancelled).